## INTERNATIONAL SEARCH REPORT

International Application No PCT/GB2005/000950

A. CLASSII IPC 7	FICATION OF SUBJECT MATTER B60H1/00 B60H1/32 F28D1/04	4							
According to	International Patent Classification (IPC) or to both national classific	ation and IPC							
B. FIELDS	SEARCHED								
Minimum documentation searched (classification system followed by classification symbols)  IPC 7 B60H F28D									
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched									
	ata base consulted during the international search (name of data ba	se and, where practical, search terms used	)						
EPO-Internal, WPI Data, PAJ									
C. DOCUMENTS CONSIDERED TO BE RELEVANT									
Category °	Relevant to claim No.								
A	US 4 190 105 A (DANKOWSKI, GERHAR 26 February 1980 (1980-02-26) column 5, line 54 - column 8, lin figure 4	1–13							
A	EP 0 859 209 A (ZEXEL CORPORATION 19 August 1998 (1998-08-19) the whole document	1-13							
A	US 6 189 604 B1 (YAMAUCHI YOSHIYU 20 February 2001 (2001-02-20) columns 4-6; figures 2,6	1-13							
Further documents are listed in the continuation of box C.  X Patent family members are listed in annex.									
*L* document which may throw doubts on priority daim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)  *O* document referring to an oral disclosure, use, exhibition or other means  *P* document published prior to the International filing date but		<ul> <li>*T* tater document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</li> <li>*X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</li> <li>*Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.</li> <li>*&amp;* document member of the same patent family</li> </ul>							
Date of the a	actual completion of the international search	Date of mailing of the international search report							
8 June 2005		21/06/2005							
Name and m	nailing address of the ISA  European Patent Office, P.B. 5818 Patentlaan 2  NL - 2280 HV Rijswijk  Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,	Authorized officer							
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## INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No PCT/GB2005/000950

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
US 4190105	A	26-02-1980	US JP US	4063431 53040457 4138857	A	20-12-1977 13-04-1978 13-02-1979
EP 0859209	A	19-08-1998	JP JP JP EP CN WO	10073388 10111086 10197174 0859209 1199458 9809124	A A A1 A	17-03-1998 28-04-1998 31-07-1998 19-08-1998 18-11-1998 05-03-1998
US 6189604	B1	20-02-2001	JP DE	2000203250 10001628	- •	25-07-2000 20-07 <b>-</b> 2000